

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Ichio YUDASAKA et al.

Group Art Unit: 2822

Application No.: 09/901,126

Filed: July 10, 2001

Docket No.: 040090.02

For: THIN FILM DEVICE PROVIDED WITH COATING FILM, LIQUID CRYSTAL PANEL
AND ELECTRONIC DEVICE, AND METHOD FOR MAKING THE THIN FILM
DEVICE

THIRD INFORMATION DISCLOSURE STATEMENT

Director of the U.S. Patent and Trademark Office
Washington, D.C. 20231

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. English-language abstracts of the non-English language references are attached hereto.

Respectfully submitted,

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Date: February 15, 2002

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Form PTO-1449 (REV. 8-83)		US Dept. of Commerce PATENT & TRADEMARK OFFICE		ATTY DOCKET NO. 040090.02		APPLICATION NO. 09/901,126	
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)				APPLICANT(S) Ichio YUDASAKA et al.			
				FILING DATE July 10, 2001		GROUP 2822	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
		5,132,248	07/21/92	DRUMMOND et al.			
		5,214,350	05/25/93	REMEC et al.			
		5,276,380	01/04/94	TANG			
		5,326,692	07/05/94	BRINKLEY et al.			
		5,593,788	01/14/97	SHI et al.			
		5,610,932	03/11/97	KESSLER et al.			
		5,854,139	12/29/98	ARATANI et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	
		JP-A-62-31174 (w/English abstract)	02/10/87	Japan			
		JP-A-62-85224 (w/English abstract)	04/18/87	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)							
		LEWIS, Richard J., <i>Hawley's Condensed Chemical Dictionary</i> , Thirteenth Edition, 1997, pp. 820 & 900-901.					
		MORRISON, Robert et al., <i>Organic Chemistry</i> , Fifth Edition, 1987, p. 637.					
		BUDAVARI, Susan et al., <i>The Merck Index An Encyclopedia of Chemicals, Drugs, and Biologicals</i> , Twelfth Edition, 1996, p. 357.					
		ADACHI, Chihaya et al., "Blue light-emitting organic electroluminescent devices", <i>Appl. Phys. Lett.</i> , Vol. 56, No. 9, February 26, 1990, pp. 799-801.					
		BURROWS, P.E. et al., "Color-tunable organic light-emitting devices", <i>Appl. Phys. Lett.</i> , Vol. 69, No. 20, November 11, 1996, pp. 2959-2961.					
		KIDO, J. et al., "Single-layer white light-emitting organic electroluminescent devices based on dye-dispersed poly(<i>N</i> -vinylcarbazole)", <i>Appl. Phys. Lett.</i> , Vol. 67, No. 16, October 16, 1995, pp. 2281-2283.					
		WU, C.C. et al., "Integrated three-color organic light-emitting devices", <i>Appl. Phys. Lett.</i> , Vol. 69, No. 21, November 18, 1996, pp. 3117-3119.					
		ZHANG, C. et al., "Blue emission from polymer light-emitting diodes using non-conjugated polymer blends with air-stable electrodes", <i>Synthetic Metals</i> , Vol. 72, 1995, pp. 185-188.					
		ISHIMARU, N. et al., "Development of Color Filters by Pigment Ink Jet Printing (II) (-Production Technology-), <i>SID</i> , 1997, pp. 69-72.					
EXAMINER					DATE CONSIDERED		
Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

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				OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)			
		EBISAWA, F. et al., "Electrical Properties of polyacetylene/polysiloxane interface", <i>J. Appl. Phys.</i> , Vol. 54, No. 6, June 1983, pp. 3255-3259.					
		KIDO, Junji et al., "Organic electroluminescent devices based on molecularly doped polymers", <i>Appl. Phys. Lett.</i> , Vol. 61, No. 7, August 17, 1992, pp. 761-763.					
		VAN SLYKE, S.A. et al., "Organic electroluminescent devices with improved stability", <i>Appl. Phys. Lett.</i> , Vol. 69, No. 15, October 7, 1996, pp. 2160-2162.					
		ZHANG, C. et al., "Blue electroluminescent diodes utilizing blends of poly(<i>p</i> -phenylphenylene vinylene) in poly(9-vinylcarbazole)", <i>Synthetic Metals</i> , Vol. 62, 1994, pp. 35-40.					
		VESTWEBER, H. et al., "Electroluminescence from polymer blends and molecularly doped polymers", <i>Synthetic Metals</i> , Vol. 64, 1994, pp. 141-145.					
		NONAKA, Y. et al., "Development of Color Filters by Pigment Ink Jet Printing (I) (Fundamental Technology)", <i>SID</i> , 1997, pp. 238-241.					
		WU, Chung-Chih et al., "Efficient Organic Electroluminescent Devices Using Single-Layer Doped Polymer Thin Films with Bipolar Carrier Transport Abilities", <i>IEEE Transactions on Electron Devices</i> , Vol. 44, No. 8, August 1997, pp. 1269-1281.					
		WU, C.C. et al., "Surface modification of indium tin oxide by plasma treatment: An effective method to improve the efficiency, brightness, and reliability of organic light emitting devices", <i>Appl. Phys. Lett.</i> , Vol. 70, No. 11, March 17, 1997, pp. 1348-1350.					
		TIAN, Jing et al., "Luminescent Properties of Conjugated Poly(<i>p</i> -pyridylvinylene) and Poly(<i>p</i> -pyridiniumvinylene)", <i>Polymer Preprints</i> , Vol. 35, No. 2, August 1994, pp. 761-762.					
		MARSELLS, Michael J. et al. "Regiochemical Consequences in Poly(2,5-Pyridinium Vinylene): Kekule' and Non-Kekule' Conductive Polymers", <i>Polymer Preprints</i> , Vol. 33, No. 1, April 1992, pp. 1196-1197.					
		HOSOKAWA, Chishio et al., "Highly efficient blue electroluminescence from a distyrylarylene emitting layer with a new dopant", <i>Appl. Phys. Lett.</i> , Vol. 67, No. 26, December 25, 1995, pp. 3853-3855.					
		HEBNER, T.R. et al. "Ink-jet printing of doped polymers for organic light emitting devices", <i>Appl. Phys. Lett.</i> , Vol. 72, No. 5, February 2, 1998, pp. 519-521.					
		MAYO, Jonathan W. et al., "16.3: Colour Filters for Flat Panel Displays by High Definition Ink Jet Printing", <i>Euro Display '96</i> , October 1-3, 1996, pp. 537-540.					
		PARKER, I.D. et al., "Efficient blue electroluminescence from a fluorinated polyquinoline", <i>Appl. Phys. Lett.</i> , Vol. 65, No. 10, September 5, 1994, pp. 1272-1274.					
		TIAN, Jing et al., "Photophysical Properties, Self-Assembled Thin Films, and Light-Emitting Diodes of Poly(<i>p</i> -pyridylvinylene)s and Poly(<i>p</i> -pyridinium vinylene)s", <i>Chem. Mater.</i> , Vol. 7, No. 11, 1995, pp. 2190-2198.					
		TIAN, Jing et al., "Electroluminescent Properties of Self-Assembled Polymer Thin Films", <i>Adv. Mater.</i> , Vol. 7, No. 4, 1995, pp. 395-398.					
		JOHNSON, G.E. et al., "Electroluminescence from single layer molecularly doped polymer films", <i>Pure & Appl. Chem.</i> , Vol. 67, No. 1, 1995, pp. 175-182.					
EXAMINER						DATE CONSIDERED	
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PTO RECEIPT FOR FILING OF PAPERS

The following papers have been filed:

Second Information Disclosure Statement w/1449, 44 references, 6 English abstracts, 1 English translation.

Name of Applicant: Ichio YUDASAKA et al.

Serial No.: 09/901,126

Atty. File No.: 040090.02

Title (New Cases): THIN FILM DEVICE PROVIDED WITH COATING FILM, LIQUID CRYSTAL PANEL AND ELECTRONIC DEVICE, AND METHOD FOR MAKING THE THIN FILM DEVICE

Sender's Initials: JAO:EDM/gam

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